



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 08/936,657A
Source: IFW/6
Date Processed by STIC: 3/29/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT

MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 08/936,657A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.
- 5 J Variable Length Sequence(s) 12-13 contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFW16

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/08/936,657A**

DATE: 03/29/2004

TIME: 10:30:20

Input Set : **A:\00-838-A.SequenceListing.txt**Output Set: **N:\CRF4\03292004\H936657A.raw**

3 <110> APPLICANT: Sirna Therapeutics, Inc.
 5 <120> TITLE OF INVENTION: Modified Ribozymes
 7 <130> FILE REFERENCE: MBHB 00-838-A; 228/213
 9 <140> CURRENT APPLICATION NUMBER: US 08/936657A
 10 <141> CURRENT FILING DATE: 1997-09-24
 12 <150> PRIOR APPLICATION NUMBER: US 07/965,411
 13 <151> PRIOR FILING DATE: 1993-08-09
 15 <160> NUMBER OF SEQ ID NOS: 15
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 32
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Ribozyme
 27 <400> SEQUENCE: 1
 28 gatatacctga ctccctatag tgagtcgtat ta 32
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 36
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Ribozyme
 39 <400> SEQUENCE: 2
 40 taatacagact cactataggg agtcaggata tctgca 36
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 51
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Ribozyme
 51 <400> SEQUENCE: 3
 52 ggagtttcgg cctaacggcc tcacagagg accctatagt gagtcgtatt a 51
 55 <210> SEQ ID NO: 4
 56 <211> LENGTH: 55
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Ribozyme
 63 <400> SEQUENCE: 4
 64 taatacagact cactataggg tcctctgatg aggcggttag gccgaaactc ctgca 55
 67 <210> SEQ ID NO: 5
 68 <211> LENGTH: 34

Does Not Comply
Corrected Diskette Needed

P.3

RAW SEQUENCE LISTING

DATE: 03/29/2004

PATENT APPLICATION: US/08/936,657A

TIME: 10:30:20

Input Set : A:\00-838-A.SequenceListing.txt

Output Set: N:\CRF4\03292004\H936657A.raw

```

69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Ribozyme
75 <400> SEQUENCE: 5
76 ggguccucug augaggccgu uaggccgaaa cucc 34
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 34
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Ribozyme
87 <220> FEATURE:
88 <221> NAME/KEY: misc_feature
89 <223> OTHER INFORMATION: All U nucleic acids are 2'-fluoro derivatives.
92 <400> SEQUENCE: 6
93 ggguccucug augaggccgu uaggccgaaa cucc 34
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 34
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Ribozyme
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <223> OTHER INFORMATION: All U nucleic acids are 2'-amino derivatives.
109 <400> SEQUENCE: 7
110 ggguccucug augaggccgu uaggccgaaa cucc 34
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 12
115 <212> TYPE: RNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Substrate
121 <400> SEQUENCE: 8
122 gggagucagg au 12
125 <210> SEQ ID NO: 9
126 <211> LENGTH: 12
127 <212> TYPE: RNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Substrate
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <223> OTHER INFORMATION: All U nucleotides are 2'-fluoro derivatives
138 <400> SEQUENCE: 9
139 gggagucagg au 12
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 12

```

RAW SEQUENCE LISTING

DATE: 03/29/2004

PATENT APPLICATION: US/08/936,657A

TIME: 10:30:20

Input Set : A:\00-838-A.SequenceListing.txt

Output Set: N:\CRF4\03292004\H936657A.raw

144 <212> TYPE: RNA
 145 <213> ORGANISM: Artificial Sequence
 147 <220> FEATURE:
 148 <223> OTHER INFORMATION: Substrate
 150 <220> FEATURE:
 151 <221> NAME/KEY: misc_feature
 152 <222> LOCATION: (7)..(7)
 153 <223> OTHER INFORMATION: 2'-fluoro derivative
 156 <400> SEQUENCE: 10

12

157 gggagucagg au
 160 <210> SEQ ID NO: 11
 161 <211> LENGTH: 12
 162 <212> TYPE: RNA
 163 <213> ORGANISM: Artificial Sequence
 165 <220> FEATURE:
 166 <223> OTHER INFORMATION: Substrate
 168 <220> FEATURE:
 169 <221> NAME/KEY: misc_feature
 170 <222> LOCATION: (6)..(6)
 171 <223> OTHER INFORMATION: 2'-amino derivative
 174 <400> SEQUENCE: 11

12

175 gggagucagg au
 178 <210> SEQ ID NO: 12
 179 <211> LENGTH: 13
 180 <212> TYPE: DNA
 181 <213> ORGANISM: Artificial Sequence
 183 <220> FEATURE:
 184 <223> OTHER INFORMATION: Substrate
 186 <220> FEATURE:
 187 <221> NAME/KEY: misc_feature
 188 <222> LOCATION: (13)..(13)
 189 <223> OTHER INFORMATION: N stands for any one or more A, T, G, C.
 192 <400> SEQUENCE: 12

variable length is not permitted.

*See
item 5
on Error
Summary
Sheet.*

W--> 193 gggagucagg aun

13

196 <210> SEQ ID NO: 13
 197 <211> LENGTH: 13
 198 <212> TYPE: DNA
 199 <213> ORGANISM: Artificial Sequence
 201 <220> FEATURE:
 202 <223> OTHER INFORMATION: Substrate
 204 <220> FEATURE:
 205 <221> NAME/KEY: misc_feature
 206 <223> OTHER INFORMATION: All U nucleotides are 2'-fluoro derivatives.
 209 <220> FEATURE:
 210 <221> NAME/KEY: misc_feature
 211 <222> LOCATION: (13)..(13)
 212 <223> OTHER INFORMATION: N stands for one or more modified or unmodified nucleotides.
 215 <400> SEQUENCE: 13

same error

W--> 216 gggagucagg aun

13

RAW SEQUENCE LISTING

DATE: 03/29/2004

PATENT APPLICATION: US/08/936,657A

TIME: 10:30:20

Input Set : A:\00-838-A.SequenceListing.txt

Output Set: N:\CRF4\03292004\H936657A.raw

219 <210> SEQ ID NO: 14
220 <211> LENGTH: 12
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Substrate
227 <220> FEATURE:
228 <221> NAME/KEY: misc feature
229 <223> OTHER INFORMATION: All U nucleotides are 2'-fluoro derivatives.
232 <400> SEQUENCE: 14
233 gggagucagg au 12
236 <210> SEQ ID NO: 15
237 <211> LENGTH: 36
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Ribozyme
244 <400> SEQUENCE: 15
245 cacaacacug augaggccgu uaggccgaaa cgggca 36

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/08/936,657A

DATE: 03/29/2004
TIME: 10:30:21

Input Set : A:\00-838-A.SequenceListing.txt
Output Set: N:\CRF4\03292004\H936657A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 13
Seq#:13; N Pos. 13

VERIFICATION SUMMARY

DATE: 03/29/2004

PATENT APPLICATION: US/08/936,657A

TIME: 10:30:21

Input Set : A:\00-838-A.SequenceListing.txt

Output Set: N:\CRF4\03292004\H936657A.raw

L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0

L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0